

ALINCO

DR-590T / DR-590E

VHF/UHF FM

TWIN BAND MOBILE TRANSCEIVER



SPECIFICATIONS

DR-590T

DR-590E

General

Frequency coverage:

- DR-590T (U.S. Version)
144.000-147.995MHz (TX),
137.000-173.995MHz (RX),
440.000-449.995MHz (TX),
410.000-469.995MHz (RX)
- DR-590E (Europe Version)
144.000-145.9875MHz (TX & RX)
430.000-439.9875MHz (TX & RX)

Frequency Resolution:

5, 10, 12.5, 15, 20, and 25kHz steps

Antenna Impedance:

50 Ohms unbalance

Power Supply Requirement:

13.8 Volts D.C.

Current Drain at 13.8V

Receiving

Squelched: does not exceed 800mA

Transmitting

VHF High: 45W approx. 9.5A

Middle: 10W approx. 4.5A

Low: 5W approx. 3.5A

UHF High: 35W approx. 15A

Middle: 8W approx. 5A

Low: 4W approx. 4A

Dimension:

150mm(W) X 50mm(H) X 178mm(D)

(5-9/10") (2") (7")

Weight:

Approx. 1.5kg (3.3lbs.)

Transmitter

Output Power:

V H F High: 45W

Middle: 10W

Low: 5W

U H F High: 35W

Middle: 8W

Low: 4W

Emission Mode:

F3 (FM)

Modulation System:

Variable Reactance F.M.

Max. Frequency Deviation:

±5kHz

Spurious Emission:

— 60dB or under below carrier

Microphone:

Electret Condenser Microphone

Operating Mode:

Simplex

Duplex:

5kHz and 12.5kHz steps between 0 and 10.995MHz

from receiver

frequency at 144-147.995MHz and 440-449.995MHz

DTMF Encoder:

Built-in (DR-590T only)

* Receiver

Receiving System:

Superheterodyne, Dual Conversion

Modulation Acceptance:

F3 (FM)

Intermediate Frequency:

1st 21.6MHz and 455kHz at VHF

1st 30.825MHz and 455kHz at UHF

Sensitivity:

12dB SINAD — 16dB

Selectivity:

±6kHz or under at -6dB

±12kHz or under at -60dB

Audio Power Output:

Approx. 2.5W

Speaker Impedance:

8 Ohms

* Accessories supplied as standard

-Hand Microphone (Condenser type)

a 16 button DTMF Microphone (DR-590T)

b. Hand Microphone (DR-590E)

-Mobile Mounting Bracket

-Mounting Hardware

-D.C. Power Cable

MODEL CHART

Type	DR-590T	DR-590E
Tone Burst	Not Available	1,750 Hz
Subaudible Tone	Encode Included, Decode Optional	Optional
DTMF	Included (16 Buttons)	Optional

ACCESSORIES

- EDC-19
Separate Mounting Kit
with 3m (9ft 10in.) Cable
- EDC-20
Separate Mounting Kit
with 5m (16ft 5in.) Cable

- EJ-7U
Tone Squelch Unit
(for 2 bands)

- EMS-3
Remote Control Microphone
with DTMF keypad
(Standard for DR-590T)
- EMS-5
Hand Microphone
(Standard for DR-590E)

- EJ-8U
DTMF Unit
(for 2 bands)

Specifications subject to change without notice and are guaranteed for amateur band only.



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